

# INPLASY PROTOCOL

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**Review Stage at time of this  
submission:** The review has  
not yet started.

**Conflicts of interest:**  
None declared.

## Periodontitis Increase the Risk of Heart Failure

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**Review question / Objective:** Can periodontitis increase the risk of heart failure?

**Condition being studied:** Previous studies reported that periodontal disease is associated with higher risk of HF. However, their conclusions conflicted a little bit with each other. In this case, a systematic review may help drawing a more comprehensive conclusion. Therefore, the purpose of the present analysis is to tell if periodontitis is associated with HF as well as the subtypes of HF.

**INPLASY registration number:** This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 18 November 2022 and was last updated on 18 November 2022 (registration number INPLASY2022110084).

### INTRODUCTION

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### METHODS

**Search strategy:** (periodont\*[Title/Abstract]) AND (heart failure[Title/Abstract]).

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**Participant or population:** Periodontitis patients.

**Intervention:** Periodontitis.

**Comparator:** No Periodontitis.

**Study designs to be included:** Head to head meta-analysis.

**Eligibility criteria:** Observational studies which reported the association of periodontitis and heart failure.

**Information sources:** Pubmed, Embase, Cochrane Library, CNKI.

**Main outcome(s):** The risk of HF, HFrEF and HFpEF.

**Quality assessment / Risk of bias analysis:** Newcastle-Ottawa Scale.

**Strategy of data synthesis:** R studio software open-source edition will be used for calculating the pooled results of the included studies and plotting. R version 4.2.2 and meta package will be used.

**Subgroup analysis:** No.

**Sensitivity analysis:** No.

**Language restriction:** English and Chinese.

**Country(ies) involved:** China.

**Keywords:** Periodontitis, Heart Failure.

**Contributions of each author:**

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